APPARATUS AND METHOD FOR UTILIZING RECIRCULATED HEAT TO CAUSE REFRIGERATION

ABSTRACT OF THE DISCLOSURE

A cooling apparatus for a system which generates heat therein, includes a chamber for receiving at least a portion of the heat, the chamber containing a refrigerant therein, a condenser for receiving the refrigerant having been heated in the chamber, the refrigerant being pressurized and cooled in the condenser, and at least one coil coupled to the condenser and leading to a region to be cooled. The at least one coil includes a first portion coupled to the condenser, a second portion downstream from the first portion, and a third portion downstream of the second portion. The second downstream portion contains an orifice for free expansion to cause cooling of the region, and the third downstream portion leads from the region to be cooled back to the chamber.